

**From:** [Jessica Winter](#)  
**To:** [Eric Blischke/R10/USEPA/US@EPA](#)  
**Cc:** [Robert Dexter](#); [Sheila Fleming](#)  
**Subject:** Re: PCB Modelng  
**Date:** 01/29/2010 02:17 PM

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Yes, I think the idea was to look at the data to see whether there is a set of four congeners that comprise  
a) a large percentage of the total PCB mass at most locations  
b) a relatively constant percentage of the total PCB mass at most locations  
I believe we wanted to go directly from those up to the total PCB number- I am not sure that adding an intermediate step of estimating homologs would add any accuracy.

The other difference between this and the LWG proposal is to omit the Aroclor data unless we find large spatial gaps where there is no congener data at all.

Blischke.Eric@epamail.epa.gov wrote:

> Bob and Jessica, it is not clear to me whether or how the congener data  
> would be scaled up to total PCBs. During the TCT, we discussed  
> selecting a congener representative of each homolog group and using the  
> specific congener result to develop homolog estimates and then summing  
> to get to total PCBs.

>  
> Just so I am clear, it sounds like your approach is to look at  
> individual congeners but to look at four instead of two to better  
> bracket the Kow range and use congeners that are detected at higher  
> frequencies than PCB 126. Otherwise, the approach is the same as that  
> proposed by the LWG. Is this correct?

>  
> It will be important to keep in mind the basis for selecting PCB 77 and  
> 126. These were selected because they had the highest contribution to  
> PCB bird and mammal TEQ (See Appendix A of the bioaccumulation report,  
> Tables 3 and 4). For example, even though PCB 126 was detected 16% of  
> the time in surface water, it contributes 65% of the PCB mammal TEQ  
> contribution from water.

> Thanks, Eric

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> | From: |  
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> |----->  
> | Robert Dexter <bob@ridolfi.com>  
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> | To: |  
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> |----->  
> | Eric Blischke/R10/USEPA/US@EPA  
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> |----->  
> | Cc: |  
> |----->

> |----->  
> | Jessica Winter <Jessica.Winter@noaa.gov>, Sheila Fleming <sheila@ridolfi.com>  
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> |----->  
> | Date: |  
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> | 01/29/2010 11:13 AM  
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> | PCB Modelng  
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> Eric,

>  
> Here's our write-up on the revised recommendation for PCB modeling. We  
> hope it's useful.

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> Bob  
>  
> Rober N Dexter  
> Principal Scientist  
>  
> RIDOLFI  
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> 1011 Western Avenue, Suite 1006, Seattle, WA 98104  
> tel 206.682.7294 | fax 206.682.5008  
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> [attachment "PCB Model Selection\_2010\_01\_29.docx" deleted by Eric  
> Blischke/R10/USEPA/US]  
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